

Dissolved Lead  
Boiler Blowdown  
Outfall 001 (Grate)  
VA0090131

Complies with e-mail dated 1/29/03 (QLs & USE OF DATA IN STATS.EXE)

QL per Attachment A = 0.50

Uncensored (>QL) Data

12  
2  
2  
Value  
Value  
Value  
Value  
Value  
Value  
Value

Censored ("<") Data

< \ 200  
< \ 10  
< \ 10  
< \ 10  
< \ 10  
< \ 1  
< \ 2  
< \ 2  
< \ 2  
< \ 5  
< \ 50

<= USE  
<= USE  
<= USE  
<= USE

Intermediate Values
2
1
2
2
2
1
1.75

**PROCEDURE**

**STATS Run #1:**

Run STATS.exe using: QL = 0.5 and  
Uncensored data in yellow cells.  
No Limit Required: Analysis concluded - no limit required  
Limit Required: Proceed to STATS Run #2

**STATS Run #2:**

Run STATS.exe using QL = 1.75 and  
Uncensored data in yellow cells and  
specified Censored data in green cells.  
No Limit Required: Analysis concluded - no limit required  
Limit Required: Include both runs of STATS in Fact Sheet and limit in Draft Permit

Complies with e-mail dated 1/29/03 (QLs & USE OF DATA IN STATS.EXE)

### Uncensored (>QL) Data

Censored (" $<$ ") Data

```
< \10      <= USE
< \10      <= USE
< \20
< \20
< Value
< Value
< Value
< Value
< Value
< Value
```

**Intermediate**

### Values

10  
10  
10

10  
10

## PROCEDURE

STATS Run #1:

Run STATS.exe using: QL = 2 and  
Uncensored data in yellow cells.

**No Limit Required:** Analysis concluded - no limit required

Limit Required: Proceed to STATS Run #2

STATS Run #2:

Run STATS.exe using QL = 10 and  
Uncensored data in yellow cells and  
specified Censored data in green cells.

No Limit Required: Analysis concluded - no limit required

**Limit Required:** Include both runs of STATS in Fact Sheet and limit in Draft Permit

Dissolved Zinc  
Boiler Blowdown  
Outfall 001 (Plant)  
VA0090131

Complies with e-mail dated 1/29/03 (QLs & USE OF DATA IN STATS.EXE)

QL per Attachment A = 2.00

Uncensored (>QL) Data

14  
38  
Value  
Value  
Value  
Value  
Value  
Value  
Value  
Value

Censored ("<") Data

< \ 20  
< \ 20  
< \ 10  
< \ 10  
< \ 10  
< Value  
< Value  
< Value  
< Value  
< Value

= <= USE  
= <= USE  
= <= USE

Intermediate Values
14
10
10
10
10
10
10

**PROCEDURE**

STATS Run #1:

Run STATS.exe using: QL = 2 and  
Uncensored data in yellow cells.  
No Limit Required: Analysis concluded - no limit required  
Limit Required: Proceed to STATS Run #2

STATS Run #2:

Run STATS.exe using QL = 10 and  
Uncensored data in yellow cells and  
specified Censored data in green cells.  
No Limit Required: Analysis concluded - no limit required  
Limit Required: Include both runs of STATS in Fact Sheet and limit in Draft Permit

Dissolved Zinc  
Bench Sheet Data -  
Outfall 001 (Grate)  
Uncensored Data;  
STATS Run #1  
VA0090131 - '09 REI

1/9/2009 10:30:18 AM

Facility = Tyson Foods - Crewe Feedmill  
Chemical = Dissolved Zinc  
Chronic averaging period = 4  
WLAa = 97  
WLAc =  
Q.L. = 2.0  
# samples/mo. = 1  
# samples/wk. = 1

Summary of Statistics:

# observations = 9  
Expected Value = 172.333  
Variance = 10691.5  
C.V. = 0.6  
97th percentile daily values = 419.358  
97th percentile 4 day average = 286.726  
97th percentile 30 day average = 207.843  
# < Q.L. = 0  
Model used = BPJ Assumptions, type 2 data

A limit is needed based on Acute Toxicity  
Maximum Daily Limit = 97  
Average Weekly limit = 97  
Average Monthly Limit = 97

The data are:

200  
300  
860  
80  
10  
30  
20  
26  
25

2/20/2009 1:56:53 PM

Facility = Tyson Foods - Crewe Feedmill

Chemical = Dissolved Zinc

Chronic averaging period = 4

WLAa = 97

WLAc =

Q.L. = 10

# samples/mo. = 1

# samples/wk. = 1

#### Summary of Statistics:

# observations = 11

Expected Value = 19.3739

Variance = 135.125

C.V. = 0.6

97th percentile daily values = 47.1448

97th percentile 4 day average = 32.2341

97th percentile 30 day average = 23.3659

# < Q.L. = 2

Model used = BPJ Assumptions, Type 1 data

No Limit is required for this material

The data are:

200

300

860

80

10

30

20

26

25

0

0

Dissolved Zinc

Bench Sheet Data -

Outfall 001 (Grate)

Censored & Uncensored

Data; STATS Run #2

VA0090131 - '09 REI

Dissolved Zinc  
Bench Sheet Data —  
Outfall 001 (Plant)  
Uncensored Data  
VA0090131 — '09 REI

1/9/2009 9:11:18 AM

Facility = Tyson Foods - Crewe Feedmill  
Chemical = Dissolved Zinc  
Chronic averaging period = 4  
WLAa = 97  
WLAc =  
Q.L. = 2.0  
# samples/mo. = 1  
# samples/wk. = 1

Summary of Statistics:

# observations = 2  
Expected Value = 26  
Variance = 243.36  
C.V. = 0.6  
97th percentile daily values = 63.2688  
97th percentile 4 day average = 43.2585  
97th percentile 30 day average = 31.3573  
# < Q.L. = 0  
Model used = BPJ Assumptions, type 2 data

No Limit is required for this material.

The data are:

14  
38

\*Note: STATS was not run using both censored and uncensored data for Dissolved Zinc (Plant), as STATS run with uncensored data showed that a limit was not necessary. Analysis concluded.

Dissolved Copper  
Bench Sheet Data -  
Outfall 001 (Grate)  
VA0090131-09 REI

1/9/2009 10:48:12 AM

Facility = Tyson Foods - Crewe Feedmill  
Chemical = Dissolved Copper  
Chronic averaging period = 4  
WLAa = 11  
WLAc =  
Q.L. = 0.5  
# samples/mo. = 1  
# samples/wk. = 1

Summary of Statistics:

# observations = 14  
Expected Value = 147.886  
Variance = 128855.  
C.V. = 2.427292  
97th percentile daily values = 768.678  
97th percentile 4 day average = 563.162  
97th percentile 30 day average = 271.163  
# < Q.L. = 0  
Model used = lognormal

A limit is needed based on Acute Toxicity

Maximum Daily Limit = 11  
Average Weekly Limit = 11  
Average Monthly Limit = 11

The data are:

120  
320  
710  
40  
40  
14  
5  
17  
58  
23  
50  
370  
110  
23

Dissolved Copper  
Bench Sheet Data -  
Outfall 001 (Plant)  
VA0090131-'09 RE1

1/9/2009 10:49:10 AM

Facility = Tyson Foods - Crewe Feedmill  
Chemical = Dissolved Copper  
Chronic averaging period = 4  
WLAa = 11  
WLAc =  
Q.L. = 0.5  
# samples/mo. = 1  
# samples/wk. = 1

Summary of Statistics:

# observations = 7  
Expected Value = 119  
Variance = 5097.96  
C.V. = 0.6  
97th percentile daily values = 289.576  
97th percentile 4 day average = 197.991  
97th percentile 30 day average = 143.520  
# < Q.L. = 0  
Model used = BPJ Assumptions, type 2 data

A limit is needed based on Acute Toxicity  
Maximum Daily Limit = 11  
Average Weekly Limit = 11  
Average Monthly Limit = 11

The data are:

41  
390  
130  
31  
74  
89  
78



Dissolved Lead  
Bench Sheet Data —  
Outfall 001 (Grate)  
Uncensored Data ;  
STATS Run #1  
VA0090131-'09 RE1

1/9/2009 10:39:54 AM

Facility = Tyson Foods - Crewe Feedmill  
Chemical = Dissolved Lead  
Chronic averaging period = 4  
WLAA = 90  
WLAC =  
Q.L. = 0.5  
# samples/mo. = 1  
# samples/wk. = 1

Summary of Statistics:

# observations = 3  
Expected Value = 5.33333  
Variance = 10.24  
C.V. = 0.6  
97th percentile daily values = 12.9782  
97th percentile 4 day average = 8.87354  
97th percentile 30 day average = 6.43228  
# < Q.L. = 0  
Model used = BPJ Assumptions, type 2 data

No Limit is required for this material,

The data are:

12  
2  
2

\*Note : STATS was not run using both censored and uncensored data for Dissolved Lead (Grate), as STATS run with uncensored data showed that a limit was not necessary. Analysis Concluded.

2/20/2009 2:06:22 PM

Facility = Tyson Foods - Crewe Feedmill  
Chemical = Dissolved Lead  
Chronic averaging period = 4  
WLAa = 90  
WLAc =  
Q.L. = 0.5  
# samples/mo. = 1  
# samples/wk. = 1

Summary of Statistics:

# observations = 7  
Expected Value = 25.5714  
Variance = 235.403  
C.V. = 0.6  
97th percentile daily values = 62.2259  
97th percentile 4 day average = 42.5454  
97th percentile 30 day average = 30.8405  
# < Q.L. = 0  
Model used = BPJ Assumptions, type 2 data

No Limit is required for this material

The data are:

2  
2  
5  
50  
50  
50  
20

\* Note: Actual data values were "2", but entered in  
STATS as a real number.

Dissolved Lead  
Bench Sheet Data -  
Outfall 001 (Plant)  
Censored Data ;  
STATS Run #1  
VA0090131 - '09 RE1